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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/765,172	01/28/2004	Martin Bureau	11453-1	9848	
25277 7	7590 02/06/2006		EXAMINER		
NATIONAL RESEARCH COUNCIL OF CANADA			LONEY, D	LONEY, DONALD J	
1500 MONTREAL ROAD BLDG M-58, ROOM EG12 OTTAWA, ONTARIO, KIA 0R6 CANADA			ART UNIT	PAPER NUMBER	
			1772		
			DATE MAILED: 02/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)				
		10/765,172	BUREAU ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Donald Loney	1772				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status			•				
1)⊠	Responsive to communication(s) filed on 25 No.	ovember 2005.					
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims		•				
4)⊠	4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.						
. /	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠)⊠ Claim(s) <u>1-17</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)∐	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examine	r.	·				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority (under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1.☐ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
			·				
Attachmen	t(s)						
1) 🛭 Notic	e of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PT							
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 4, 5, 6, 9 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 4, 5, 9 and 12 "the polymer" is recited. It is unclear as to which one this refers to since claim 1 was amended to include the member as a polymer, in addition to the overlay, therefore, two polymers are now recited.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-6, 8-11 and 15-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Pabedinskas et al (6844040).

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Pabedinskas et al discloses a polymer core member 2, 5, 7, 10 or 30 with a polymer overlay 3, 4, 6 or 32. Both the core and overlay are reinforced with fibers. Refer to figures 1-4 and 15. Figure 15 specifically shows the overlay being welded to the core 30 using heat and pressure (instant claim 1 and 15). Also refer to column 4, lines 13-57, column 6, lines 28-64 and column 9, lines 20-41. Per claims 6 and 8, an additional layer is shown on the opposite sides of the member in figures 1-4, along with the profile being hollow. The fibers are cellulosic (i.e. wood) per instant claim 10

5. Claims 1-6, 8, 9 and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Fell (5316604).

Fell discloses a polymer core member 1 with a polymer overlay 2. Both the core and overlay are reinforced with fibers. Refer to figures 1-3. The overlays are fused to the core using heat and pressure (per instant claim 1 and 15). Also refer to column 4, lines 3-45. Per claims 6 and 8, an additional layer is shown on the opposite sides of the member in figures 1-3, along with the profile being hollow (i.e. its honeycomb).

6. Claims 1-7 and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith (3995980).

Smith discloses a polymer core member 30' with a polymer overlay 30' and 24'. Both the core and overlay are reinforced with fibers. The overlays are fused to the core using heat and pressure (per instant claim 1 and 15). Refer to the three figures at the bottom right of figure 1 along with the Abstract and column 1, line 63 through column 2, line 10. Per claims 6 and 7, an additional layer is shown on the opposite sides of the member in figure 1, along with the member 30' being solid.

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7. Claims 1-7 and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 00/78541 to Dubelsten et al.

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Dubelsten et al discloses a polymer core member c with a polymer overlay F₁ and F₂ in figures 13 and 14. Both the core and overlay are reinforced with fibers. The overlays are melted (i.e. fused and/or welded) to the core using a heat and pressure (per instant claim 1 and 15). Refer to page 5, lines 5-30, page 10, lines 3-20, page 11, lines 5-15 and page 12, lines 1-9. Per claims 6 and 7, an additional layer is shown on the opposite sides of the member in figure 1, along with the member 30' being solid.

Claim Rejections - 35 USC § 103,

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. Claims 8-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/78541 to Dubelsten et al in view of Pabedinskas et al.

The primary reference teaches the invention substantially as recited except for the hollow profile for the member. See the 35 U.S.C. 102 rejection above.

Pabedinskas et al discloses one can form the core of a composite fiber reinforced article with a hollow profile. See 35 USC 102 rejection above.

- 12. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to Dubelsten et al to form the core with a hollow structure, as taught by Pabedinskas et al, motivated by the fact this would let one use less material therefore which would be financially beneficial. It also would let one form a larger core with less weight. Both Dubelsten et al and Pabedinskas et al disclose wood fibers per instant claims 10 and 14. Dubelsten et al teaches a fabric per claim 12 on page 13, lines 5-9. Pabedinskas et al shows square chambers per claim 13 in figures 1, 2 and 4.
- 1. Claims 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pabedinskas et al in view of Kimura et al (6060144).

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The primary reference teaches the invention substantially as recited except for the fiber reinforced fabric per claim 12. See the 35 U.S.C. 102 rejection above.

Kimura et al teaches to use a fabric reinforced polymer layer 3 as the outer layer on a hollow core 5 used in building and automotive applications. Refer to figure 1 and column 3, line 38 through column 4, line 26.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to include a fabric reinforced polymer as the outer layer, as taught by Kimura et al, in order to impart a fabric structure to the outer surface thereof.

Response to Arguments

- 2. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.
- 3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald Loney whose telephone number is (571) 272-1493. The examiner can normally be reached on Mon, Tues, Thurs and Fri. 8AM-4PM, flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donald Loney Primary Examiner Art Unit 1772

DJL;D.Loney 02/02/06